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CLAIMS

** method of forming a conductive line comprising the following steps: forming a polysilicon layer; forming a silicide layer against the polysilicon layer; providing a conductivity-enhancing impurity within the silicide layer; and

2. The method of claim 1 wherein the silicide comprises a metal selected

providing the polysilicon layer and the silicide layer into a conductive line shape.

3. The method of claim 1 wherein the steps of forming the silicide layer and providing the conductivity-enhancing dopant\therein together comprise:

from the group consisting of tungsten, titanium, molybdenum and cobalt.

depositing a metal together with the conductivity-enhancing impurity on the polysilicon layer; and

reacting the metal with the polysilicon to form the silicide layer having the conductivity-enhancing impurity therein.

The method of claim 1 wherein,

the step of forming the silicide layer comprises chemical vapor depositing silicide on the polysilicon layer; and

the step of providing the conductivity enhancing impurity comprises chemical vapor depositing the conductivity-enhancing impurity *in situ* with the chemical vapor depositing of the silicide.

5. The method of chaim 1 wherein,

the step of forming the silicide layer comprises chemical vapor depositing a ungsten-comprising silicide on the polysilicon;

the step of providing the conductivity-enhancing impurity comprises chemical vapor depositing the conductivity-enhancing impurity *in situ* with the chemical vapor depositing of the tungsten-comprising silicide, and

the conductivity-enhancing impurity comprises a group III or a group V element.

- 6. The method of claim 5 wherein the step of chemical vapor depositing the conductivity-enhancing impurity comprises utilizing a precursor compound selected from the group consisting of PH₃, AsH₃, and diborane.
- 7. The method of claim 1 wherein the conductivity-enhancing impurity is provided to a concentration of at least about 1 x 10¹⁸ ions/cm³ within the silicide layer.

8. The method of claim 1 wherein the step of forming the silicide layer and the step of doping the silicide layer together comprise:

providing a target comprising a metal, silicon and the conductivity-enhancing impurity; and

sputtering of the target to form the silicide layer and the conductivity-enhancing impurity within the silicide layer, the silicide layer comprising the metal.

9. The method of claim 1 wherein the step of providing the conductivity-enhancing impurity comprises:

ion implanting the conductivity-enhancing impurity into the silicide layer after forming the silicide layer.

10. The method of claim 1 wherein the polysilicon layer is doped with the conductivity-enhancing impurity, and wherein the step of providing the conductivity-enhancing impurity comprises:

out-diffusing the conductivity-enhancing impurity from the doped polysilicon layer into the silicide layer.

11. The method of claim 1 wherein the step of providing the conductivity-enhancing impurity comprises:

gas phase chemical doping of the silicide layer.

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- 12. The method of claim 1 wherein the conductive line is a wordline.
- 13. (Amended) A method of lowering the resistivity of a metal-silicide layer comprising doping the metal-silicide layer with phosphorous.
- 14. The method of claim 13 wherein the dopant is provided to a concentration within the metal-silicide layer of at least about 1 x 10^{18} ions/cm³.
 - 15. A method of forming a conductive line comprising the following steps: forming a polysilicon layer;

forming a silicide layer against the layer of polysilicon;

providing a conductivity-enhancing impurity within the silicide layer; and after providing the conductivity-enhancing impurity within the silicide layer, subjecting the silicide layer to a processing step of over 850°C for at least 10 seconds.

16. The method of claim 15 wherein the forming the silicide layer comprises depositing a metal layer over the polysilicon and reacting the metal layer with the polysilicon, and wherein the conductivity-enhancing impurity is provided within the metal layer prior to the reacting the metal layer with the polysilicon.

- 17. The method of claim 15 wherein the forming the silicide layer comprises depositing a metal layer over the polysilicon and reacting the metal layer with the polysilicon, and wherein the conductivity-enhancing impurity is provided within the metal layer after the reacting the metal layer with the polysilicon.
- 18. The method of claim 15 wherein the conductivity-enhancing impurity is implanted into the silicide layer.
 - 19. The method of claim 15 wherein the conductivity-enhancing impurity is provided to a concentration within the silicide layer of at least about 1 x 10^{18} ions/cm³.
- 20. A method of forming a conductive line comprising the following steps: forming a polysilicon layer; forming a silicide layer against the layer of polysilicon; providing a conductivity-enhancing impurity within the silicide layer; and subjecting the silicide layer to a processing step of over 850°C for at least 10 seconds while exposing the silicide layer to an oxygen-comprising atmosphere.

Please add the following new claims:

29. (New) A method of forming a conductive line comprising:

forming a polysilicon layer;

forming a silicide layer over and proximately adjacent only the polysilicon layer;

and

providing a conductivity-enhancing impurity within the silicide layer.

- 30. (New) The method of claim 29 further comprising exposing the silicide layer to an oxygen-comprising atmosphere.
- 31. (New) The method of claim 29 wherein the conductivity-enhancing impurity comprises phosphorous.
- 32. (New) The method of claim 29 further comprising providing a dopant within the polysilicon layer to a concentration of at least about 1×10^{19} ions/cm³.

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33. (New) A method of forming a conductive line comprising:

providing a substrate;

forming a polysilicon layer over the substrate;

forming a sillicide layer over the polysilicon layer and substrate; and after the forming of the silicide, patterning the polysilicon and silicide layers to form a conductive line.

34. (New) The method of claim 33 further comprising providing a conductivity-enhancing impurity within the silicide layer.

35. (New) The method of claim 34 wherein the providing of the conductivity-enhancing impurity is performed after the patterning of the polysilicon and silicide layers.

36. (New) The method of claim 34 wherein the providing of the conductivity-enhancing impurity is performed before the patterning of the polysilicon and silicide layers.